

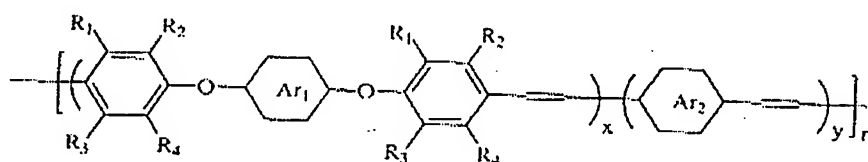
Application No.: 10/777,896

Docket No.: C3540.0001

CLAIM AMENDMENTS

Claims 1 to 6 (Canceled).

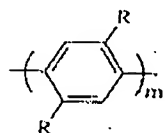
7. (New) An energy-transfer type light-emitting polymer based on poly(p-phenylene vinyl)s, which has the structural unit as represented by the following formula (1):



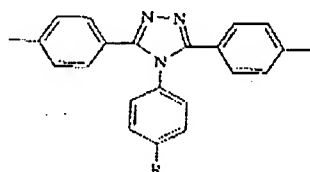
Formula (1)

wherein  $R_1$ ,  $R_2$ ,  $R_3$ , and  $R_4$  each independently is hydrogen, alkyl, alkoxy, optionally substituted phenyl or naphthyl;  $x$  and  $y$  each is the content of the luminous element, satisfying  $0 < x < 1$ ,  $0 < y < 1$ ,  $x + y = 1$ ; and  $n = 1-200$ ;

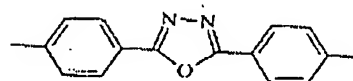
$Ar_1$  being one or two luminous structural elements selected from a group consisting of formula (2), formula (12), and formula (13), wherein  $R$  is hydrogen, alkyl, alkoxy, optionally substituted phenyl or naphthyl;  $m = 1-10$ ;



Formula (2)

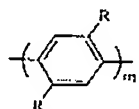


Formula (12)

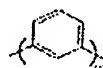


Formula (13)

$Ar_2$  being one or two luminous structural elements selected from a group consisting of formula (30) and formula (33), wherein  $R$  each independently is hydrogen, alkyl, alkoxy, optionally substituted phenyl or naphthyl;  $m = 1-10$ ;



Formula (30)

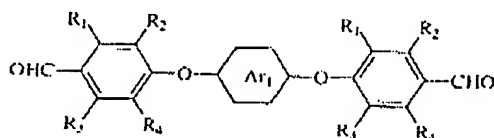


Formula (33)

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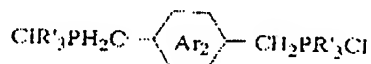
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8. (New) A process for preparing the energy-transfer type poly(p-phenylene vinyl) polymeric luminescent material according to claim 1, comprising the step of copolymerizing at least one Ar<sub>1</sub>-containing aromatic dialdehyde monomer represented by general formula (7) and at least one Ar<sub>2</sub>-containing aromatic diphosphonium monomer represented by general formula (8) at an equal molar amount,



Formula (45)

wherein R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> and R<sub>4</sub> each independently is hydrogen, alkyl, alkoxy, optionally substituted phenyl or naphthyl; Ar<sub>1</sub> is defined as in above formula (1);



Formula (46)

wherein Ar<sub>2</sub> is defined as in above formula (1); R' is butyl or phenyl.